

Sacrifice is necessary

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UNIVERSE OPINION

As with other wars, there were hundreds of young men who escaped the draft of the Vietnam War. They burned their draft cards, voiced their opposition and crossed the border into a neutral Canada. But, more importantly, there were the millions of young men who realized that fighting for their country was of more significance than saving their own lives.

Most of these men did not understand the reason for the war and probably did not want to go. They had family, friends, a 57 Chevy and girl to go with it. They had college and life to look forward to.

But in every war there are men, young and old, who are willing to fight. What is it that compels them to leave everything familiar and fight a war they did not create?

There is an honor and nobleness in going to war and fighting for a cause. It is a bond that stretches across the boundaries of time, age and class. It is a bond created by sacrifice. A bond created by giving up all that one has and taking up the burden of maintaining a free country.

Each name in the Memorial Lounge represents a young man, much like you or your brother, who was willing to fight for his country. Not for his own joy, because what young man would embrace war as his own sweetheart, but he fought for his parents, his sisters and for those who would follow behind him. They fought and died that we would have freedom today.

Today is an age in which individuals fight to get ahead of their neighbors and colleagues. Instead of fighting for their lives, money, prestige and power. In the 1980s we haven't been asked to give our lives to protect our country. In fact, we haven't been asked to do much at all.

Instead of growing strong through sacrifice during difficult times, we have grown weak by pursuing the "easy life." We have lost our perspective. If we do not keep in mind the necessity of sacrifice we may be losing our lives sooner than we think.

This editorial is the opinion of The Daily Universe editorial board, which comprises the associate publisher, editor, opinion page editor, a teacher of opinion writing and a student staff member. Daily Universe Opinions are not necessarily those of Brigham Young University, its administration or sponsoring church. The editorial board meetings are every Tuesday at 11 a.m. in 511 ELWC. All meetings are open to the public.

Dear Editor:

When I saw the feature in Monday's edition of The Daily Universe, I got a little nervous. The title said the articles would present reasons to vote for each candidate. Oh no! I thought, could this be a departure from the mud-slinging that has dominated all the recent political campaigns? This won't be a discussion of each candidate's stand on the issues, will it? This won't tell us why we should vote for a candidate based on his own merits, will it? Imagine my relief, then, when I read Doug Gibson's article about George Bush. I was heartened to see that Bush's stands on the issues were not mentioned. In fact, Dukakis' opinions were mentioned more than Bush's. Mr. Gibson's main point was that we should vote for Bush because he exposed Dukakis' stand on the issues. I would just like to thank Mr. Gibson for ignoring the possibility that Bush could have his own qualifications and taking the low road. May dirty, mud-slinging campaigns continue.

Jason Hardy
Northfield, Ill.

Kicking around

Dear Editor:

We're excited and relieved that the presidential election has finally drawn to a close. Not because the best man (George Bush) finally won. Not because that attacks on Dan Quayle's legitimacy will finally end. Not because we can finally rest from political commercials during MTV and the Flintstones. However, we do rejoice that Jason Chaffetz will no longer be

LETTERS TO THE EDITOR

Oh no!

Brent Packer
Jeff Olson
Bryan Carling
Bountiful

occupied writing articles in support of Mike Dukakis. Jason will now be able to prioritize his time in the area of the most need—practicing his field goal kicking!

Sean Covey
Provo

Joy of giving

Who is worse?

Dear Editor:

I had to laugh when I read about the charges made by the San Diego State Aztecs regarding racial statements made by our players in last Saturday night's game. I must say that I feel San Diego State is a classless team. If racial statements were made by BYU players we don't condone it and we must improve our manners. But I dare not repeat a few of the remarks the Aztecs made to us. Now two wrongs don't make a right, but my point is this: I would guess that BYU is much more poised, controlled and classy than about any other team around. Many times, while lying under 300-600 pounds of opponent I have heard about every expiement I've heard of. It goes on all the time, in every game, along with a lot of other things. Last year in Australia while lying under some Colorado State players, the Colorado State noseguard grabbed my head and twisted it until I thought my neck would break. And this was after the play was over. It's a war out there and it should come as no surprise that football game vernacular isn't always pleasant. It doesn't surprise me that San Diego would come out with accusations of this sort. They would do anything to get at us. We're not perfect, but we're better than most. As Dick Harmon said in a recent Daily Herald article, "This school has an immaculate reputation

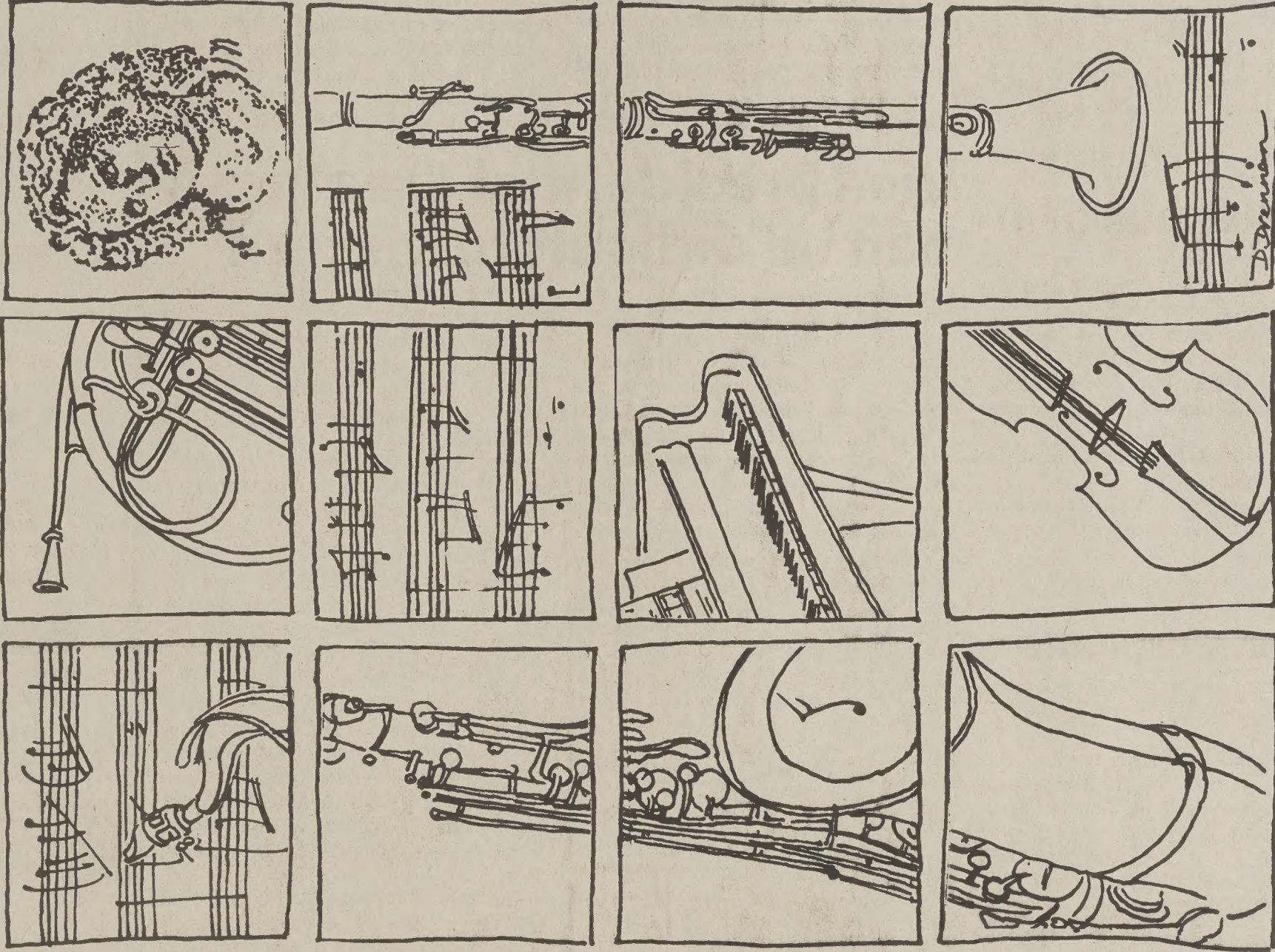
U.S. Air Force Academy, Colo.
The Daily Universe gladly accepts letters to the editor. All letters must be typed, double-spaced and are NOT to exceed one page. Name, social security number, local telephone number and hometown must accompany all letters. The Daily Universe reserves the right to edit letters for clarity and length.

Allan L. Passey

With your wards, family home evening groups, or as individuals, you may contact Kim Slothower, a BYUUSA representative, in charge of service project coordination. Kim is the director of "Service To Go" and may be contacted in 447 ELWC or by calling 378-2130.

Please remember that the joy of Christmas is giving, and all are anxious to see and share in your best Christmas wishes. It just takes a moment to help brighten the lives of those that might not have it all, and in many instances, that moment of your time will last forever. Thank you and have a wonderful Christmas holiday.

MUSIC



IN LIFE

NEWS DIGEST

Compiled from staff and news service reports

Los Angeles gang deaths still rising

LOS ANGELES — Drug-dealing gang members are murdering in record numbers despite police sweeps and the mayor's pledge to "take these terrorists off the streets."

But authorities insist the battle is being won in target areas such as south-central Los Angeles and say those successes are not reflected in the numbers.

Police Department figures show gang-related homicides rose threefold in October compared with the same month last year, from 11 to 33. For the year through Oct. 31, they were up nearly 25 percent, from 166 in 1987 to 207.

This year's total already surpasses the record 205 gang killings for all of 1987.

In Los Angeles County areas where the sheriff enforces the law, 79 gang-related murders were recorded by late October, matching the total for all of 1987.

Meanwhile, crack-dealing Crips and Bloods, the deadliest gangs in the nation's second-largest city, continue to surface in towns and cities across the western United States.

"We aren't losing the war, we just aren't winning in the data," department spokesman Cmdr. William Booth said Friday. However, Booth conceded, "The data does tell us we are a long way from winning the war."

In April, Mayor Tom Bradley, a former police lieutenant, vowed to win the war during the first 1,000-officer gang task force sweep.

1973 abortion ruling may be modified

SALT LAKE CITY — Utah's pro-life forces are rejoicing at prospects under the new George Bush administration for overturning or modifying the U.S. Supreme Court's landmark 1973 Roe vs. Wade abortion decision.

But Bush's victory over Democrat Michael Dukakis last week — and the Republican's stance against abortion — alarms pro-choice advocates.

"Anytime lately that the Supreme Court has been asked to revisit Roe vs. Wade, I've been concerned," said Karrie Galloway, executive director of the Planned Parenthood Association of Utah.

"I'm optimistic. I would like to see it happen," said Rosa Goodnight, director of Right to Life of Utah. "We see it as a good possibility."

Last week, the Reagan administration suggested that a Missouri law on appeal provides a good opportunity for the justices to re-examine the precedent.

Those involved in the abortion battle foresee a reversal or revision of the Roe case in the next four years.

SLC hospital OK'd for heart transplants

SALT LAKE CITY — The United Network of Organ Sharing has approved Primary Children's Medical Center for membership, clearing the way for future heart transplants at the pediatric hospital.

Primary Children's Administrator Donald R. Poulter said the membership approval will allow his medical facility to join LDS Hospital, University of Utah Health Sciences Medical Center and the Veteran's Administration Medical Center in the Utah Cardiac Transplant Program.

Since its creation in March 1985, the Utah Cardiac team has performed 188 heart transplants, including three for children between the ages of 5 and 19.

The local team anticipates doing three to six pediatric transplants per year at Primary Children's, Poulter said Saturday.

However, Dr. Garth Orsmond, director of pediatric cardiology at the U of U and Primary Children's, said specialists initially won't be transplanting hearts in newborns.

Poulter said a child will become a candidate for a heart transplant at Primary Children's only after all other medical treatment options are exhausted and when life expectancy is less than one year.

Drugged gunman kills Lebanese man

JERUSALEM — A Palestinian guerrilla, who kept awake during an 18-hour hostage drama by cutting his arm with a bayonet and pouring salt in the wound, killed a Lebanese captive Sunday before being overpowered by U.N. soldiers.

The gunman, who U.N. officials said was high on drugs or alcohol, belonged to a five-member Palestinian squad that seized a U.N. observation post in south Lebanon about 8 p.m. Saturday.

The guerrillas took the victim — a Lebanese technician — and five Finnish soldiers hostage after their plans to launch an attack in Israel failed, security sources in south Lebanon said.

Timur Goksel, spokesman for the 5,700-member United Nations Interim Force in Lebanon, said U.N. negotiators refused to meet the guerrillas' demands.

After nightlong negotiations, all but one of the Palestinian guerrillas surrendered Sunday morning.

Countdown simulation held for Atlantis

CAPE CANAVERAL, Fla. — A two-day countdown simulation began Sunday as part of the preparation for a classified space shuttle mission scheduled late this month.

The five astronauts who will make the flight will board the shuttle Atlantis on Monday for the final two hours of the rehearsal to test communications and run through checklists and other launch day procedures.

The target for the launch is Nov. 30, but a firm date won't be set until shuttle managers complete a flight readiness review Wednesday.

Most details about the flight are cloaked in secrecy because Atlantis will be carrying a Defense Department payload, which sources report is an intelligence-gathering satellite intended to fly over 80 percent of the Soviet Union.

The astronauts flew here Saturday from the Johnson Space Center in Houston for three days of special training. On Sunday, when the practice countdown was underway, they went to the launch pad to be briefed on emergency procedures.

The crew members are commander Robert Gibson, pilot Guy Gardner and mission specialists Mike Mullane, Jerry Ross and William Shepherd.

Massachusetts' prisons to get art work

BOSTON — Massachusetts has budgeted nearly \$1.1 million to beautify prisons with art under a little-known law being criticized by lawmakers and corrections officials.

The expenditures for anything from lawn sculpture to paintings to art classes stem from a law passed in 1981 under then-Gov. Edward King. It requires that 1 percent of construction costs on public buildings be devoted to art, up to a maximum of \$100,000.

As a result, a large chunk of public money will be go toward art in new or renovated state and county prisons.

Massachusetts, with an \$11.6 billion budget for fiscal 1989, is grappling with a potential deficit that some say could be \$500 million or more because of less-than-projected revenue growth.

Gov. Michael Dukakis is expected to address the fiscal crisis on Monday.

The art law, which was buried within a complex construction bill, drew incredulous responses from some public officials.

State Rep. Joseph Hermann introduced legislation last week to exempt prisons from the 1 percent law.

SLC may bid for host city of the '98 Olympics

Associated Press

MINNEAPOLIS — Thanks to the United States Olympic Committee's decision to open up bidding to cities other than Anchorage, Alaska, Salt Lake City will have a shot at the 1998 Winter Olympic Games, officials say.

USOC Executive Board Member Henry Marsh, a Salt Lake City attorney and former Olympic steeplechase runner, said the committee will choose the U.S. representative late next May or June. Anchorage had won the national bid for 1992 and 1994.

But interested cities will have to let the committee know their intentions by Feb. 18, when a team will be appointed to tour the potential host cities.

Marsh said Anchorage will resub-

Vice presidential greatness can be difficult to discern

Associated Press

WASHINGTON — Dan Quayle's new boss says the 44th vice president of the United States will be one of the great ones — but it's going to be hard to tell whether he is or not. Greatness is not easily discerned in understudies.

Nobody much remembers vice presidents who do not get promoted.

Thirteen, going on fourteen, of the men who have served by standing, waiting and presiding over the Senate have become presidents by succession or by election.

Unless they made their marks elsewhere, the rest aren't as well known as Alexander Throttlebottom, the Broadway veep who got the job by losing a drawing, and then had to join a tour group to find a way into the White House.

For the record, Charles Curtis was the real vice president when "Of Thee I Sing" opened in 1931. He was said to have been the inspiration for the Throttlebottom character.

Quayle, who has faced Democratic scorn and Republican reservations, complained during the campaign about being depicted as a sort of male bimbo. One of his campaign assignments seemed to be to lower his photogenic profile.

For all the Democratic complaints about negative campaigning by the Republicans, nobody faced so savage and personal an onslaught as J. Danforth Quayle. There's been nothing like it since the Democratic campaign

by police after the first body was discovered Friday but released for lack of evidence.

The woman apparently had been cashing some of the victims' Social Security checks for several months, Enloe said. He said the motive in the slayings was believed to be robbery.

Authorities cordoned off the two-story home and yard while officers with picks, shovels and an earth-mover excavated the grounds, hunting for more corpses. The fifth body was found about noon Sunday, wrapped in a sheet in a shallow grave near a driveway.

Earlier, police had said the four bodies found Friday and Saturday showed "no overt signs of violence," and that the victims may have died by poisoning.

At least one of the bodies, a woman "wrapped like a mummy" in a tablecloth, had been buried since April, investigators said.

An all-points bulletin was issued for Puente, and she remained at large Sunday. She has not been charged with the crime, but Enloe said an arrest warrant was being prepared against her for investigation of murder.

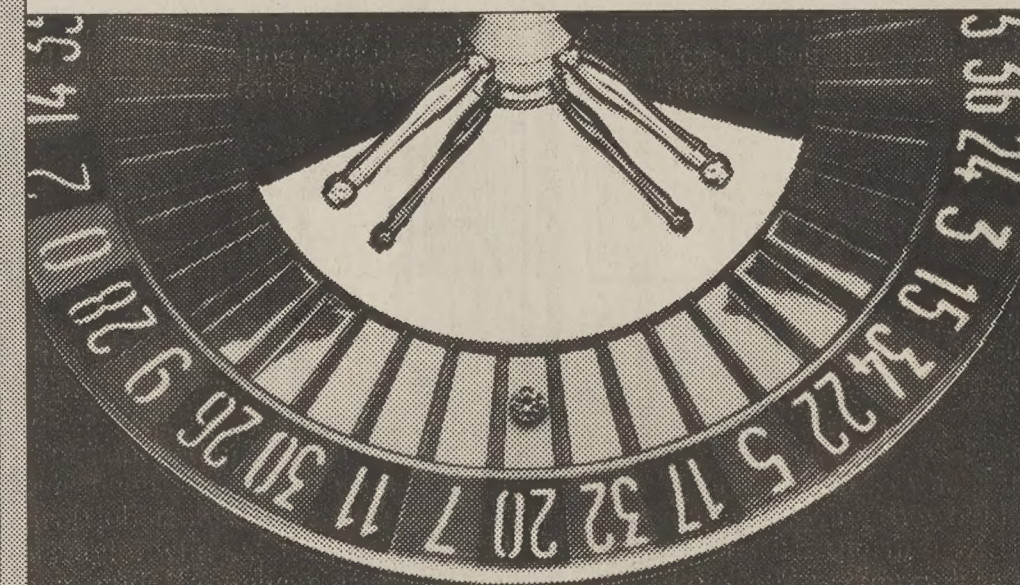


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Mayor Palmer DePaulis' chief of staff. Zuhl went to Minneapolis to observe the USOC meeting.

Zuhl said if Salt Lake City is to bid, it will need the support of the state, the other municipalities and the business community.

"The first thing the city needs to do is make a determination whether we will go forward," he said.

Marsh said he thinks Salt Lake City has the inside track against the other cities because it has hosted some major sporting events and has actively courted the Olympic committee.

Events like the National Figure Skating and Gymnastics Championships at the Salt Palace and World Cup ski races in Park City helped Utah's image, he said.

Utah has shown an interest in winter Olympics since a mid-1960s effort to gain the 1972 games, which went to Sapporo, Japan.

The 1992 games will be held in Albertville, France, and the games, the first to be held in a city when the Summer Olympics are scheduled, will be in Lillehammer, Norway.



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Quote of the day:
"See, winter comes to rule the varied year, sullen and sad."
James Thomas

Music touches everything and everyone

KENNETH S. ROGERSON
Music Editor

Music is an integral part of every life. Just try to live through an day without listening to music, or outside of your head.

Music has soundtracks; television and commercials have background music; athletic events have "shopping" music; cars spew different types of music; communities have concerts, musicals and plays; homes and apartments reverberate in the sound of music.

Music, many times unnoticed, can have an effect on pictures in our mind to actually alter our perception of what is really there.

The movie "Jaws," released in 1975, is still in the list of the top-ten scariest movies of all time. But look at it for a moment. What was the scariest part? Only a mechanical sound of the aquatic beast. It made it so frightening?

In an article for the magazine Review, Paulette Weiss said, "The 'Jaws' theme for the movie is the most terrifying aspect. The fact that it finally appeared as a rubber band was as frightening as a rubber band forces people to worry

about things they can't see, said Les Keyser in his book "Hollywood in the Seventies."

Most cars have radios and many nowadays are equipped with more, such as AM and FM station reception and cassette player, or the latest in compact disc entertainment.

Most student apartments have at least a radio and more often than not, an entire stereo system complete with speakers, woofers and tweeters.

Other ethnic groups

Moving from the college student culture, other ethnic groups have great musical heritages.

From African folk music to South American guitar music to ancient Oriental instruments to folk songs from the Middle East to yodeling in the Swiss Alps, music has come to characterize different world cultures.

No one listening to the "Song of the Volga Boatmen" would ever think that it originated in Fiji.

The wonderful thing about music is that it can cross international boundaries and more than likely find an audience for the sound or message it is trying to present.

For example, Ladysmith Black Mambazo, a group from South Africa, recently came through Salt Lake City. The group's sound celebrates its culture and is based on African rhythms and melodies. It also has re-



ceived platinum honors for its recordings many times.

A few years ago, an Austrian group named Falco made hits in America with a mixture of English and Viennese dialect. Though most people did not always understand what was being sung, the music gained an international audience.

Music through time

Music has evolved according to the times, either as a means of personal expression, or to reach the audience that needed it most or could most easily pay for it.

From its beginnings in grunts and percussive sounds music reached out for melody, then harmony and then polyphony. With each passing discovery, it found an audience to embrace the new idea and the "old ways" kept its audience. Therefore, music began to grow.

The sounds of the fourths and fifths

that were popular in Gregorian Chants changed to accommodate the more soothing sounds of the thirds and sixths.

J.S. Bach, Wolfgang Amadeus Mozart and Franz Haydn were all revolutionaries in their own time. Their contributions moved music ahead.

Though each composed for someone else, they also used music as an outlet for personal feeling, feelings that later flowed in and out of music during the Romantic period.

Music inspires

These deep feelings of love, for a friend, family, a lover or a country have always been associated with music, as well as being used as a forum for protesting, sarcasm, inspiration, spirituality and motivation.

During the late 1960s, Arlo Guthrie wrote a song called "Alice's Restaurant" to protest war. Kate Smith's moving recording of "God Bless America" moved many hearts toward greater patriotism as does "O Canada" for many Canadians.

Militaries all over the world use music as a motivational tool, whether it be for keeping the cadence while marching or helping to build lung capacity.

Singing while running helps build physical endurance.

Many coaches have used the theme

from "Rocky" to "psyche out" their teams before a game.

As music ekes in and out of a thousand different parts of peoples lives, some don't even recognize how much it affects them. But it does. Once again, try to go one entire day without listening to music, inside or outside of your head. It will more than likely be impossible.

And, because music evokes a multitude of emotions and is very personal, it is should mean something different for every person.

Some may swoon to the theme from "Somewhere in Time," while others will relate more to "Love Stinks." That's the way it should be.

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Musical politics' can be a career

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Universe photo by Bryan L. Anderton

...into the professional music world can be a process. When there is a position open in a professional orchestra, 150 people or more may try out for that single spot.

SE LAPERLE
Staff Writer

Music politics is the name of the game. BYU students have succeeded in the wide world of music so is the advice of BYU professors who have been musicians for years.

Music into performance is extremely hazardous because of the time and money for few positions," said Dalton, a BYU music professor. "There are a lot more people who want to do it than there are jobs

Dalton's daughter Allison, who for her position on the symphony Orchestra she is approximately 150 violinists auditioned, he said.

Have to wait for someone to go or something, then go to auditions," said Bryce, a senior from Provo majoring in trombone performance.

Clayne Robison, a BYU music professor who freelances in opera, said he can only name three former BYU students who are currently full-time professional opera singers, and another 10 who have been in the professional world but are now somehow in the university setting. "The world we're talking about is extremely difficult to live in... you have to commit and your family had better be ready to commit," said Robison.

"The music world is pretty dog-eat-dog," according to Darrin Duerden, a senior from Salt Lake City in music education who plays percussion, referring to the politics that surround the high competition.

Gail Smith is a BYU cello professor who began giving recitals and guest appearances on a national and international level at a young age. She said musicians are often judged by what they play rather than how they play.

"One person will buy an expensive instrument, and others think he must

be worthy of having it," she said.

Freelancing musical skills is one possibility a musician might follow, but the competition there is just as intense, according to Mecham.

"Once you get in you've got it made," he said. A few good musicians usually get all the freelance work in the area, though, and in smaller cities such as Salt Lake even those must have a supplemental income, he said.

"Freelancing requires hustle and if you don't hustle well a university-centered place might be better," said Merrill Bradshaw, BYU's composer-in-residence. Many like Bradshaw teach and freelance on the side, spending at least part of their days composing or performing, he said.

While in college, students need to spend a great deal of time getting their names known.

Mecham said he is entering all the contests he can to get a good resume. He also participated in a brass camp over the summer, which allowed him

to study with first trombone players from professional orchestras and helped him establish some contacts.

Duerden noted the need to get good recommendations from professors.

Dalton's younger daughter, Hilary, 24, a senior from Provo majoring in Humanities, is a soprano who said she hopes to have a career with a professional opera company. She said she would encourage musicians to get a private instructor who will make an honest assessment of the student's skills, and for students to be as involved as possible in choirs, operettas and operas, or other campus musical groups.

Robison said even more than worrying about his students' artistic abilities, he hopes they approach the musical world "in such a way that they will be successful people... and change the nature of their environment."

But just deciding to be the best musician possible is not enough.

"It's rather elitist," Hilary said, and added that probably 98 percent of musicians are fighting to eat.

Many of those musicians, facing the instability of making a living in performance, turn to teaching.

"The majority turn to teaching because it's easier," said Bradshaw.

Most of those who have kept their lives together are now in teaching, said Robison. He added that the "university encourages me to keep my hand in the professional world," although he prefers the artistic freedom a university setting allows.

Dalton said teachers are among the lowest paid of college graduates, and music teachers the lowest among them.

That is all right with Smith, who said, "Sometimes I'd rather teach than eat."

All professors and students agreed that there is one thing that holds them to following the music profession, despite the competition and instability: they love it.

"They love it so much they can't live without it," said Bradshaw. "There are a lot of us who cannot be happy doing something else."

Mecham said he wants to be a musician, but is worried about the hardships and politicking he still has to go through.

"You bet I am (worried). I'm scared to death."

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Pianist donates recordings to Yale

Red Press

YALE, Conn. — Acclaimed pianist Vladimir Horowitz has donated to Yale University 218 original recordings of Carnegie Hall concerts he gave during the 1950s.

It is a prime time for him and these are the only recordings of those performances," Yale music librarian Samuel said Saturday. "What makes them special is their uniqueness. ... No one but he, and I

suppose a couple of friends, has ever heard them."

Horowitz employed an engineer to "cut" the 78-rpm records during his Carnegie Hall performances and used them to judge his recitals, Samuel said.

Yale acquired the recordings along with other memorabilia through an alumnus who knows Horowitz's wife, Samuel said.

Horowitz, 85, has performed at the university several times during his career, which spans more than a half century.

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Soothing more than the savage beast

Music therapy relaxes patients

By HISAYOSHI IWAMITSU
Senior Reporter

Janet Anderson, 42, of Spanish Fork, got in an automobile accident in October 1984. She was diagnosed as having only whiplash. She thought she was going to recover soon, but pains around her neck never left and started increasing instead.

In January 1986, a doctor finally found that her jaw was dislocated. The automobile accident had destroyed a small joint in her jaw.

"I had physical therapy, but it merely aggravated my pain considerably. I was never out of pain," Anderson said.

She went to see a psychologist at Utah Valley Regional Medical Center, in Provo. The psychologist told her to have operation to replace the destroyed joint of her jaw with an artificial joint, and then introduced her to a musical therapist, Wayne Musgrave, to allay pains.

"He asked me many questions, including my hobbies, religion and favorite music, and he put all those things into a music tape," Anderson said.

She said she found that "when I listened to the tape, I couldn't worry about something else. It (the music tape) really made me comfortable."

Musgrave, 35, of Provo, graduated from the University of California, Berkeley, with a degree in musicology. He has composed a lot of music on synthesizer for documentary films, such as National Geographic.

"Music becomes the most powerful when it is combined with a certain picture. I learned it when I was composing music for films. That is the concept of my musical therapy," which is called the "individualized personal music therapy," he said.

He started this practice three years ago as a part of program to recover mental health. He said he works exclusively for the Department of Behavior Medicine at UVRMC.

Musgrave said he asks his patients who have



Wayne Musgrave, a musical therapist at UVRMC, composes music on synthesizer that helps patients to relax.

been suffering from stress or anxiety to imagine the most peaceful, relaxing picture. "I write down details about the picture, compose the music based the picture, and add some sound effects, such as a sound of river or birds," Musgrave said.

He said it is gratifying to have one person and compose one piece of music for someone who has

been having a difficult time mentally.

If a patient is having a sleeping problem, he said he produces an 8- to 10-minute sleep tape.

"The sleep tape starts out at 60 beats a minute, which is a normal heart rate, and the music slows down to 40 beats a minute to be able to make patients relax," he said. The patient gradually falls in a deep sleep.

Jami Schwartz, recreational therapist in the Behavior Medicine Department of UVRMC, said, "What he (Musgrave) is doing is helping patients evoke an emotional response by using visual imagery and music."

She said using the combined tape of his music and the patients' imagery is a powerful medium to help patients bring about a response and also help their body relax.

Patients are enjoying this unique practice that UVRMU has very much, Schwartz said.

According to Musgrave, there are three different groups of people that he works with: a child adolescent unit, ages 11 to 17; an adult psych. unit, ages 18 to 65; and an eating disorder unit, ages 18 to 35.

"People in the adult psych. unit are suffering from major depression," he said.

One of Musgrave's patients was a professor at the University of Utah. The professor, who had recently retired, found that he had a lot of extra time. Because he had lost his wife, he was bored and was sinking into a deep depression.

In an interview with the professor, Musgrave found that the patient loved classical music and hiking. "He really loved nature," he said. Musgrave composed classical, uplifting music.

The psychologist's job is to solve the professor's problems. "My role is to make this process of feeling more present," Musgrave said.

"If people don't associate with any memories what they are hearing, it is easier to lose track of what you are imagining. The music (composed by Musgrave) sets a particular image (in the patients' mind)," Schwartz said.

Pop-eyed bug found in Quebec, Canada is believed to be the world's oldest insect

Associated Press

CHICAGO — A pop-eyed bug believed to be the world's oldest insect, discovered almost by accident in a chunk of mud, suggests that insects may have originated millions of years earlier than once thought, scientists say.

To the uninitiated, the fossil looks like two small specks.

But to paleozoologist Conrad bandeira and colleagues, the found on the north shore of Gaspé Peninsula in Quebec, Canada, is oldest known insect, dating back some 390 million years.

The finding describes remarkably well-preserved fragments of a wingless bug belonging to the most primitive order of insects and similar to modern-day silverfish.

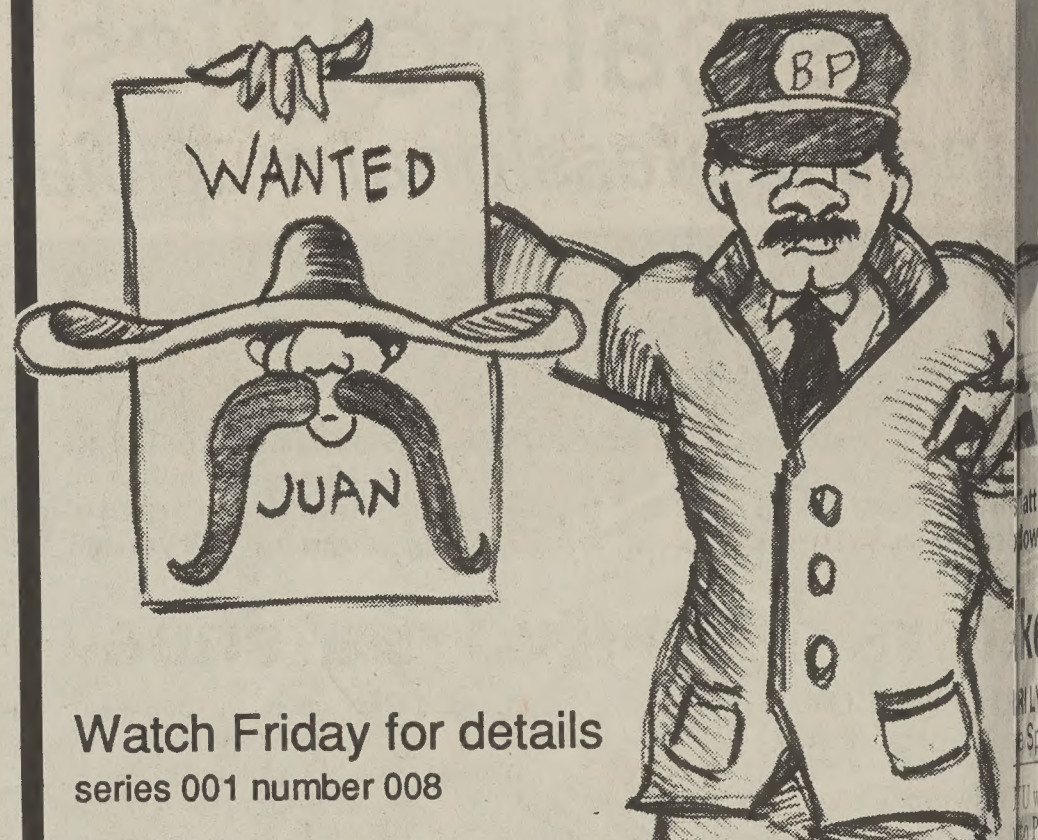
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Past masters are studied at jazz school

Christian Science Monitor

SANDPOINT, Idaho — On a sunny Idaho mountaintop a million cultural miles from the smoky jazz cradles of New Orleans, Chicago and New York, a dozen young jazzmen are learning respect for their elders.

Jazz school students of the Festival at Sandpoint who come from South Africa, Finland and both coasts of the United States share a common lineage by virtue of their interest in jazz.

Musically, the genealogy they

share runs something like this: Louis Armstrong, Duke Ellington, Charlie Parker, Thelonious Monk, Gil Evans and Miles Davis.

Like the telling and retelling of Homeric legends, jazz standards are played and replayed here.

"You should always subject yourself to the task of the history," says trumpeter Wynton Marsalis. The multi-Grammied jazz and classical recording artist is on the faculty of this growing music festival's first-ever jazz training school.

Under the leadership of artistic director Gunther Schuller, this summer music festival has grown from a concert series to include a haven for musicians seeking training in chamber music and jazz, and young conductors seeking the wisdom of Schuller.

With Schuller's respect for the past and advocacy of modern music, a jazz program was a logical addition to the academic program here.

In ensemble rehearsals, effervescent jazz professor Doug Richards pushes the student players through

"East St. Louis Toodle-oo," a bluesy early Duke Ellington composition that's about 50 years old.

Richards, who has led a series of award-winning jazz bands at Virginia Commonwealth University, is known for his transcriptions of early jazz as well as his knack for creating hot student jazz groups.

Because of the presence of people like drummer Max Roach and Marsalis, young players like 22-year-old trumpeter Mika Myllari, of Helsinki, rushed to sign up for the program. "When I heard, I right away bought a ticket," he said.

Strolling into a Wednesday afternoon class in high-top basketball sneakers and sweat pants, with his trumpet slung under his arm, Marsalis looked like an unlikely proponent of musical scholarship.

"For some reason, in jazz everybody is against education," he said. "They feel the more you know about music, the less of a jazz musician you're going to be, which is wrong."

Blues, he made it clear, is not some mythical state of mind attributed only to the long-suffering and the soulful.

"The blues is what makes music sound American, that's something George Gershwin understood."

Music can affect its listeners both mentally and physically

By TOM E. NORMAN
Universe Staff Writer

It's 10 a.m. in Provo. Bells chime the familiar chorus, "all is well, all is well," and then 10 dull chimes remind us of the hour. The belltower is just one example of music in our lives.

Music — It's a broad subject and an often taken for granted part of our lives.

I have enjoyed all types of music for as long as I can remember, from The Sounds of Sunday to MTV. When I drive I demand a cassette in my tape deck or I can't wait to park.

What is it with music? Psychologists have discovered that we allow music to manipulate us both consciously, and more often, subconsciously in our daily lives.

For example, many believe that the type of music that is played in supermarkets affects how people buy. Actually it is the volume that is instrumental. Investigators at Cornell University discovered that sales per minute increased with louder music but that total sales remained the same. Simply, the shoppers moved faster with the louder music but didn't buy any more.

Now, back to driving while listening to music. Institutional studies have discovered that listening to music lowers accident rates, particularly during rush-hour. Studies have shown that the music helps to offset stress and it lowers a driver's aggressive reactions. I knew there was a good reason for listening to music while driving.

Some people listen to tunes wherever they go and at whatever they do. I remember arguing that I could always study better if I was listening to music. Some studies verify that it might actually be true.

At New York University, investigators showed that certain types of music inspired many persons to score higher on various mental tests than they did without the music.

But the types of music can also adversely affect the score. At Louisiana State University, studies showed that students scored lower on mental tests when listening to rock-n-roll, as opposed to classical or jazz tunes.

Interestingly, music has a different effect on men than it does on women and a woman's femininity is shown by the way she responds to music.

University studies have shown that women find music more romantically stimulating than men do and are more emotionally responsive. And the U.S. Public Health Service found that femininity went hand in hand with women's ratings of various forms of music as pleasant, warm or connoting safety.

These subconscious effects are just the tip of the iceberg of music's psychological effects.

Consciously, we all react to music. What else would possess a group of people to jump around doing nothing constructive, like what goes on at dances every weekend night? A dance must be pretty bizarre to someone who has never heard of one.

At church, I have seen many people, including myself, brought to tears singing during a rather emotional meeting. Members of The Church of Jesus Christ of Latter-day Saints are taught that a song is a prayer of the heart. Life would be boring without music and its effects.

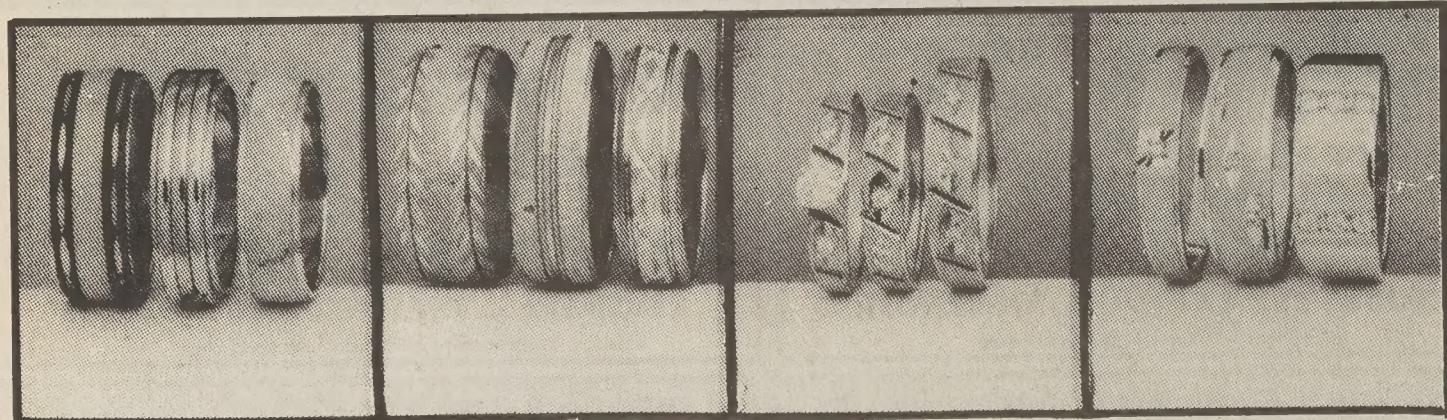
In 1934, sociologist Sigmund Spaeth stated, "The popular song has become a most revealing index to American life in general. . . . It will tell as much to future students of current civilization as any histories, biographies or newspapers of the time."

Spaeth couldn't have been more accurate.

Thomas Edison started recorded music when he invented the phonograph. Today we can enjoy almost perfect sound with the invention of the compact disc. I suppose the compact disc was invented because of the increasing demand for perfection in our society.

It will be interesting to see what comes next.

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SPORTS

Cougars win big after seesaw battle

Yarborough rushes for 324 yards while throwing for 159 to beat Air Force Academy

By SUZANNE GIBBS
Asst. Sports Editor

COLORADO SPRINGS--Whether it was the 7,000 foot elevation that made the Cougars turn to the ground or just the talent of its offense, it worked as they overcame a 10 point early deficit to beat the Falcons of Air Force, 49-31 and clinched a possible trip to the Freedom Bowl.

The Cougars registered a remarkable 324 yards rushing against the Falcons with sophomore Matt Bellini registering 138, junior Fred Whittingham 91 and junior Mike Salido 90. They also earned three of the seven touchdowns.

"We planned on running the football but not as much as we did," said Coach LaVell Edwards. "We felt like we had to run because we wanted to control the ball. Then we got into it and we were doing better than we thought we would so we stayed with it."

Freedom Bowl executive director Tom Starr who was at the game said regarding the Freedom Bowl invitation, "This win increases their chances."

Starr also said, "We've got it narrowed down to BYU, Colorado, Oregon, Washington and Arizona. We want to see how they do this weekend." Both Colorado and Oregon lost Saturday.

The Cougars took their time putting points on the scoreboard —

the Air Force cadets had already done two sets of push-ups by the time BYU's Whittingham ran the ball into the end zone for the first seven.

But once they got going, there was no stopping them. After 30 minutes of play and a remarkable touchdown catch by freshman wide receiver Tyler Anderson, the Cougars went to the locker room with a 21-17 lead.

The Cougars also lost two key defensive players and one reserve in the second half to injuries. Senior nose guard Tim Knight left the game with a knee injury and senior tackle Tim Clark left with an ankle injury. Junior running back Sim Tiatia who partially blocked an Air Force punt was later hospitalized overnight for a concussion.

Air Force came out in the third quarter with a fumble that allowed the Cougars to have possession and four downs to score on the Falcon 26-yard line. A little more than a minute later, Bellini ran it in stretching their lead to 28-17.

With the 11 point lead, the Cougars still couldn't afford to let up - but they appeared to after allowing Air Force to take the lead with two more touchdowns bringing it to 31-28.

But the Falcon lead was brief — 10 seconds to be exact — as BYU freshman corner Tony Crutchfield returned a kickoff 79 yards for a touchdown.

BYU's senior defensive back Rodney Rice intercepted a Falcon pass

and the BYU defense held the Falcons the rest of the game allowing the BYU offense two more touchdowns.

GAME STATS

BYU	7	14	14	14	49
Air Force	10	7	14	0	31

AFA-FG Yarborough 44
AFA-Johnson 3 run (Yarborough kick)
BYU-Whittingham 3 run (Chaffetz kick)
BYU-Covey 1 run (Chaffetz kick)
AFA-Dowis 4 run (Yarborough kick)
BYU-Anderson 41 pass from Covey (Chaffetz kick)
BYU-Bellini 21 run (Chaffetz kick)
AFA-Dowis 6 run (run failed)
BYU-Crutchfield 79 kickoff return (Chaffetz kick)
BYU-Covey 2 run (Chaffetz kick)
BYU-Salido 5 run (Chaffetz kick)

A-40,218

	BYU	AFA
First downs	26	26
Rushes-yards	50-324	61-341
Passing yards	159	107
Return yards	6	3
Comp-Att-Int	10-17-0	4-10-2
Punts	3-41	2-31
Fumbles-lost	2-2	2-1
Penalties-yards	10-67	4-32
Time of possession	28:28	31:32

INDIVIDUAL LEADERS

Rushing-BYU, Bellini 21-138, Whittingham 14-91. AFA, Johnson 15-112, Dowis 19-104.
Passing-BYU, Covey 10-16-0-159. AFA, Dowis 3-8-2-97. McDowell 1-2-0-10.
Receiving-BYU, Salido 4-47, Cutler 3-46, Anderson 1-41. AFA, Booker 2-58.



Universe photo by Jeanne Schmeil

Matt Bellini dives over the top of Falcon defenders to score in Saturday's 49-31 win. Bellini rushed for 138 yards.

Wreckers drop two matches

LYNN COX
Sports Writer

Women's volleyball team to Provo Sunday after two losses in New Mexico. to New Mexico State Fri- 12-15, 15-6, 12-15 and lost ersity of New Mexico Sat- 15-13, 8-15, 10-15, 10-15. had hoped for wins this o clinch the HCAC title, in the conference, 23-8 for g to Coach Elaine

Michaelis BYU has a hard time winning in New Mexico because of the gym and the fans. She said both teams needed to win in order to have a chance at an NCAA bid.

"It was a pretty emotional weekend for the whole team, we know we blew the championship," said junior defensive specialist Cherie Sam Fong.

Senior All-American Dylann Duncan played well even with her leg injuries.

Duncan led the team with 66 kills and 5 service aces.

Wreckers finish 4th at USIU invitational

THE PATTERSON
Sports Writer

Senior Mary Grace Estueta place fourth, four strokes individual winner Alison of USIU, at the United ternational University Invi- w. 9-11 in San Diego, Calif. was played at the the as Rancho Bernardo course egiogo. shed fourth in the 11-team 040, behind USIU at 915,

San Diego State with 925 and Stanford at 926.

Other finishers for BYU were freshman Ruby Chico with 231 and sophomore Lachell Simmons at 239. Robin Barry shot a 253 and Susan Powers came in at 259.

Behind BYU were Washington 965, Wyoming 966, Long Beach State and San Diego Golf Academy 973, Nebraska 987, Washington State 1,000 and Pepperdine 1,063. BYU next will play in the Amy Alcott Desert Classic, Nov. 14-16 in Palm Springs, Calif.

SEWHERE

Football League:
Pittsburgh 26
New York Jets 13
Detroit 20
Washington 14
Cincinnati 28
Green Bay 13
Atlanta 7
San Francisco 3
N.Y. Giants 17
L.A. Rams 10

Denver 30, Cleveland 7
Seattle 27, Houston 24
Minnesota 43, Dallas 3

National Basketball Association:
Houston 129, Sacramento 127
Denver at Portland (late)

Men's volleyball:
San Diego State def. BYU 15-11, 9-15, 13-15, 15-5, 15-8 (Friday)
San Diego State def. BYU 16-14, 10-15, 15-8, 15-12 (Saturday)

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Harriers fall short at tournament

By JEREMY J. JUDSON
Universe Sports Writer

For BYU cross-country, Saturday's HCAC/Region 7 Championships in Salt Lake City was a case of 'so close but yet so far.'

The men's team, led by senior Paul Rosser (31:10), finished in third place — one place shy of qualifying for the national championships being held next week in Ames, Iowa. Northern Arizona took the honors finishing three men in the top five, with a team

score of 21. New Mexico followed NAU in second place with 103 points, edging out the Cougars who finished with 131 points.

Rosser, who came in ninth place, was followed by teammates Ted Mecham (31:22) in 14th place and Dave Chipman (31:38) in 17th place.

The women's team missed qualifying for nationals by nine points. But senior Noeleen Mullan (17:16.5) came in second place to qualify nationals. UTEP's Tina Ljungberg easily took first place with a time of 16:32.1.

According to Coach Patrick Shane, the women could still qualify for nationals with a possible at-large bid.

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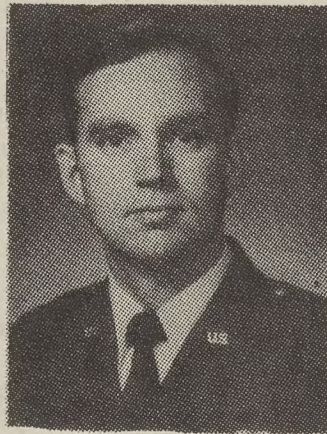
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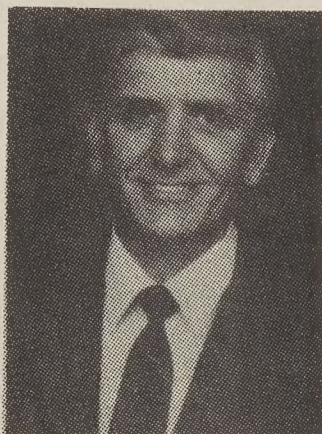
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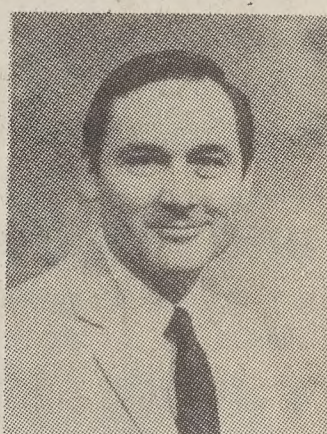
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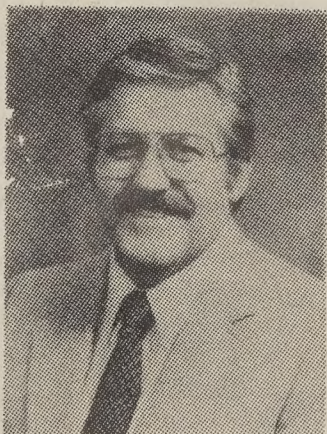
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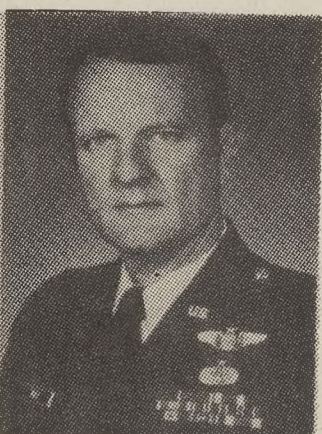
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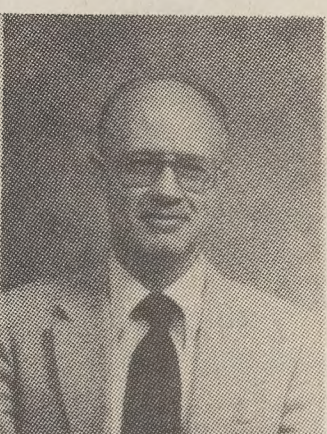
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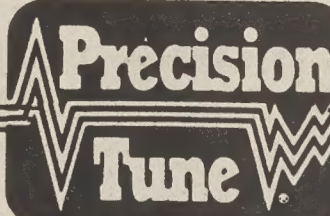
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BAE COMPUTER needs responsible student to represent our computer. Incentive bonus plan. Interested persons please send resume to 3563 Ryder Street, Santa Clara, CA 95051.

8- Help Wanted

STUDENT RESUMES Special Rates Nationwide Service 224-0690.

RESORT HOTELS, Cruiselines, airlines & amusement parks, now accepting applications for summer jobs, internships, & career positions. For more info & application write: National College-Recreation Service, PO Box 8074, Hilton Head, SC 29938.

\$5/HR + COMM. Ed Dewitt made \$1,850 in 1 wk; Bob Millward made \$1,650 in 1 wk; Nancy Tofoya made \$1,500 in 1 wk; and you can do the same. We provide the hottest leads from Television, Radio & weekly national programs. Also generous incentives, cash bonuses & vacations. Choose your shift, P-time or full-time positions avail. Call for appointment & reserve spot at presentation. 226-6387.

PEOPLE WANTED! Earn up to \$50/hr! Actors, Models, Extras. All ages. No experience. Call 277-9640.

IN A WELL PAYING CAREER within a year. Attend Cosmetology/Barber College. P-time, full-time or evenings. Grants and loans. Need income? Will train you for part-time work 373-5585 for M.

PROPERTY MNGR WANTED. SLC Mngment Co seeks Provo cple w/ strong management & bkkeeping exper. Must be self-starter, motivated, no children. 374-8363.

EDITOR/WRITER NATIONAL HEALTH PRODUCTS FIRM seeks a qualified Editor/Writer to direct the publications of its monthly magazines & newsletter. Position includes research, writing, editing, & coordination of layout & design. Excellent grammar, spelling, typing & writing skills a must. Bachelors degree in Journalism, Communications or English required. Experience in photography, art design, direct sales & nutritional counseling helpful. Send resume & samples of work to the Human Resource Dept. Nature's Sunshine Products Inc, PO Box 1000, Spanish Fork, UT 84660 by 5pm, Friday, Nov 18.

EARN \$4-\$11/HR selling candy accounts long-distance. Two shifts 7am-12pm and 12pm-5pm M-F. 226-7828

5 PHONE SURVEY POS. open, no sales. Work-wkday eves & wknds, \$4-\$5/hr. Must commit at least 20 hrs/wk. Call Scott 375-0612. 288 W. Center, Provo.

CARPET CLEANERS P-time until Christmas break. Call before 5, ask for Annie 375-7000.

COUPLE NEEDED IMMEDIATELY NOV 13-18 TO SIT A FAMILY. PLEASE CALL 377-2653.

DELIVERY PERSON Deliver salt to customers homes Part-time 7:30-12noon, M-F, \$3.50/hr. Culligan Soft Water Service 489-9303.

NEEDED: 8 Girls, age 20 or older to work at a Park City Ski Lodge beginning about Dec 15th. We provide Room, Board, Ski Pass, & small wage. LDS Standards required. Varied schedules- Maid, Waitress, Office. Call 649-9372 for interview.

14- Contracts for Sale

GIRLS WINTER CONTRACT 4 SALE \$135/mo. Util incl. Close to campus. Diane 370-2178.

MUST SELL Mens contract. 1 Month Free Rent, No dep, 3 rmmates, close to Y. 375-8260 Mark.

GIRLS- Victoria Place #56, \$170 + utils, last month free. Taressa 373-3048, Lori 224-2010.

GIRLS-PRIVATE ROOM, \$145/MO, King Henry. New carpet, paint, DW. Only 2 roommates! Avail now or winter. Rochelle, 375-2451.

CONTRACT FOR SALE, Single Woman. \$110/mo + elec & dep. Westwood Apt. 940 N. 529 W., Provo. Andrea 377-9525.

MENS VICTORIA PLACE condo available Winter. \$170 + utils, MW/DW. Tim 374-0824.

GIRLS WINTER CONTRACT Roman Gardens \$140/mo utils pd. Great ward! Alisa 374-9441.

VICTORIA PLACE CONDOS 1-2 openings, \$165, W/D, close to campus, good roommates. 373-1061.

FOR SALE! 1/2 a DORM ROOM for Winter semester in Helaman Halls. Meet many new friends. \$20 OFF if you call today 378-8315.

GIRLS, LIBERTY SQUARE \$138/mo, incl utils, 2 blks from Y. Julie Scofield 374-7910.

MENS ROOM open for Winter. Branbury Park, top level, all amenities. John 377-5379

CHATHAM TOWNE- GIRLS. Win Sem, exc loc, Great Roommates, \$175 + utils. 373-3224.

GIRLS APT Contract \$145 + utils, W/D, MW, 1 blk from Y, no dep. 1 month free. Tami 373-4507.

GIRLS-GLENWOOD Contract \$130/mo inc. utils. Great ward/roommates. Marilyn 370-2065

GIRLS- \$105/mo, utils pd. 1st month rent free. Open immed. 4 girl/2 bdrm. 373-8108.

WOMENS CRESTWOOD APT for Winter. Own bdrm, pvt vanity area, 3 roommates, DW, micro, free shuttle to Y, price negot. Kim 377-7670.

MENS CONTRACT FOR SALE- Heritage Halls. Call Craig 378-0630.

1 MALE CONTRACT - HINCKLEY HALL - AWE-SOME FLOOR & WARD - cALL FOR A BARGAIN. 378-8942.

4 SALE DORM CONTRACT - Helaman Hall. Must sell ASAP! Call Amy 378-0166.

GIRLS RIVERGROVE DPLX -\$145/mo + utils, Pvt Bdrm, 2 bth, MW/DW/W/D, 4 car gar. 373-2808.

GIRLS HOUSE - Avail Dec 16. 2 Winter openings \$110, utils paid, large home 2 blocks from campus. W/D, DW and great roommates. Keri 373-5914 between 4-6pm. 784 E. 700 N.

MENS- Heritage Halls \$87/mo, incl utils. Call Darren 378-0624.

GIRLS PVT RM Win Contr, Lrg Home near Campus, \$135/mo utils pd. Vicki 374-6383.

4 GIRLS, OLD MILL: Own bdrm w/ jacuzzi & bath, dbl bed. Avail Jan or ASAP. 373-0346 eves, Jeff.

GIRLS- 4/apt, \$140/mo inclds utils, Great ward/roomies, last month rent pd, Sparks II, Carol 377-6620, 7:30-9:30am or 3:15-5pm.

GIRLS ALTA CONTRACT Discounted at \$120/mo, utils pd. Great roommates. 374-5478.

VICTORIA PLACE CONDO, \$170 + utils, Winter, W/D, Fun rmmates, Angela 375-9078.

CHATHAM TOWNE- One Men's opening for winter, Quality Lng. \$165 + utils, 374-9971.

MALE SINGLE RM, \$115/mo + utils, DW, W/D, Pvt bath half. 375-5170 after 4.

15- Condos

PEACHTREE- Provo's best value. 3 bdrm 2 bth, tennis court, brand new, Final 5 units selling at \$48,500. Choice of 3 floorplans, FHA appr. Gary Stone, Broker 373-7653.

CONDOS FOR GIRLS at Academy, 639 N. University Ave. W/D, AC, Cable, Reduced rates. Call 377-7902 days, or 373-2259 nights.

MOUNTAINWOOD 2nd phase pre-selling (1 left in 1st phase) 2 bdrm, 2 bth, deck, 700 N. 400 W. Provo. w/g prkg. From \$54,400. Walk to BYU. Gary Stone, Broker 374-0709

MORNINGSIDE (NEW) 2 avail; penthouse or garden level. \$46,000 FHA appr. 2 bdrm, 1 bth, ultimate in quality. Owners leaving area. Gary Stone, Broker 375-7888.

\$3000 DOWN, TAKE OVER PYMT. Vaulted ceiling, loft, close to Y. Steve 377-4904.

SAVE THOUSANDS on our last 2 student condos. Only 2 blocks from campus, 2 & 3 bdrms, fully furn, starting at \$57,500 w/ low down payment. Call Mike 377-3336.

LET'S DEAL Only a few condos left next to BYU. Great investment while the kids are in college. For pvt showings call Dave 225-7539 or Century 21 Harman Realty 224-2010.

TWO GIRLS CONTRACTS 584 N 300 E #3. Micro, DW, WD, \$155/mo + utils. 373-2646. Avail Nov 20.

CHATHAM TOWN 992 N 900 E #28 Avail Dec \$185/mo + utils. Good ward/loc. W/D, MW, DW, 375-3076.

SPEND a little, make a lot with Classified ads. Call 378-2897.

16- Rooms for Rent

NO CONTRACT-PETS ALLOWED! \$90/mo shrd, \$125/mo own rm. CALL NOW 375-0455. Ask for Beth.

18- Furnished Apts for Rent

MONSON APARTMENTS Men's vacancies Winter sgl \$120, dbl \$90 + lights; Sp/Su \$60 + lights inclds micro. 373-6811; 345 E. 500 N.

GIRLS: F/W Rent \$115 incld utils, 2 bdrm 4 girls w/ laundry & cable. Anita Apts 41 E 400 N #5. 373-0819, BYU Approved.

NEWPORTER-MEN Near BYU, Spacious, Free: W/D, Cbl, MW, Utills, Swim, extras. Great Ward! \$145-165. 340 E 600 N, David B. 377-6112 Eves.

ALTA APTS NOW RENTING, FALL \$130 FALL & WINTER

1850 N. Univ Ave Next to BYU Stadium LARGE POOL, AIR CONDITIONING DISHWASHER, MICROWAVE, SATELLITE TV BYU APPROVED HOUSING FOR MEN/WOMEN RECREATION ROOM, PIANO LAUNDRY ROOM, ALL UTILITIES PAID PROMPT MAINTENANCE 373-9848

GIRLS- \$125/shrd, \$175/pvt, W/D, Frplc, AC, lg yrd, pets OK, utils incl. 373-4191, 377-4060.

GIRLS- shrd, \$95 inclds gas, 3 bdrm, 2 bath, 57 W 700 N. Call 375-9571.

CONDOS & SILVER SHADOW Contracts for sale. From \$105 to \$155/mo. Call Trouble Free 377-7902.

LOVELY HEATHER HEIGHTS CONDO. Girls 2 vac/2 bdrms. Newley furn. 72 W 880 N. Provo. Micro, W/D, \$130/mo. 375-6719 10-5pm.

COUPLES- 2 BDRM APT - AVAIL NOW! AC, W/D facilities, close to BYU, \$260/mo. 265 E. 200 N. Call 375-0056

MENS/WOMENS APTS, Twbs Style, Great location & ward, Micro, DW, Underground prkg. Free cable, Rec room, \$135/mo., 374-8363.

GIRLS vacancy at Treehouse Apts, huge bdrms, \$135 dbl occupancy, pd utils. Call 374-1685.

1 OR 2 BDRM Bsmt Apt, Springville, all utils pd, just like new!! Call 489-6701.

RAINTREE APTS 2 girls contrs avail now, \$130 inclds utils. Apt #201 373-2191

APT AVAIL IMMED, Single students, pd utils, MW, DW, Cable, Access to pool & jacuzzi. Indry rm & rec rm, close to BYU. Call 374-1700 9-6pm wkdays & 10-1pm Saturdays.

00-Couples' Housing

TWO 2 BDRM married c. W/D hk-up, \$230 + utils, SE Provo, avail now & Jan. 375-0452.

22- Homes for Sale

WILL TRADE 3 Bdrm Brick Home in excel loc in St. George for rental property in Provo. 373-2777

HANGING AROUND AWHILE? Put your money into a home instead of paying it out on rent. K.C. West Development introduces Country Lane Townhomes- luxury living at affordable family prices! Model open at 700 S. Orem Blvd (approx 1 blk W. of Scora Theatre in Orem). Call Dan 226-3008, 224-4081; Kathy 226-2633; Century 21 377-9100.

23- Income Property

PROVO DUPLEX- CHEEP- Must Sell! Nothing Down, Assume \$39,000 Loan, recently appraised at \$53,000 John 1-942-2436.

33- Computer & Video

10 MHz DTK XT 20 Meg \$995
Printers, Software, Peripherals, Etc.
Express Computer Services-Rick-373-4025

MACINTOSH Memory: 512k, \$199; 1 Meg \$249; 2 Meg \$499; 1 Meg SIM for +, SE, II, \$289; Hard Disks: 20m \$499, 40m \$629, 60m \$679; SCSI \$89; Fan \$29. 1 yr guar. 1-544-2009 eves.

MAD MAC'S

GCC Laserprinter.....\$1599.97
MEMORY UPGRADES:
128K TO 512K.....\$249.97
512K TO 1MB.....\$249.97
512K TO 2MB.....\$549.97
PLUS TO 2MB.....\$379.97

HARD DISC DRIVES:
MacCrat 20 MB.....\$519.97
MacCrat 40 MB.....\$639.97
MacCrat 60 MB.....\$699.97
InnerCrat 30 MB.....\$499.97
InnerCrat 60 MB.....\$629.97
TCE 30 MB external.....\$649.97
TCE 45 MB external.....\$799.97
TCE 30 MB internal.....\$529.97
TCE 45 MB internal.....\$649.97

Please call for pricing on The Cutting Edge, Nova CMS, Tape Crate, and PCPC Hard Disc Drives
TCE 800K floppy disc drive.....\$179.97
Max 2400 baud modem w/cable.....\$159.97
SE Silencer replacement fan.....\$38.97
DataDesk 101/TCE 105 keyboard.....\$139.97
TCE 105 w/CE Quickkeys.....\$169.97
TOPS / MAC or IBM.....\$159.97
All Software.....save 25% or more!

224-5700

IBM COMPATIBLE COMPUTERS
XT 10MHz/20 Meg \$895- AT 20 Meg \$1225
Printers, Software, Peripherals
Computer Specialties-Mike-374-1102

PURCHASE Computer Hardware, Software, Fax Machines and Peripherals at Discount Prices. ALPS * CITIZEN * DICOMIX * EVEREX * HYUNDA * INTEL * MINISCRIBE * PANASONIC * SEAGATE * TOSHIBA * WESTERN DIGITAL etc. Economical Computers, Inc. 489-8942.

DON'T GET AXED when buying computers! If you want the best deal on XT and AT Systems, Call Glenn at 378-8939.

NEC MULTISPEED LAP TOP, 640 K. Software incld. \$1100/OBO. AXE Computers. 378-8982.

XT W/30 MEG HD, floppy, amber monitor, Star NX1000 printer, 1200 BD Modem. \$1199 Matt-Axe Computers 378-8982.

LOWEST PRICES & 1 YEAR WARRANTY XT \$595! AT \$949! Call NOW! 377-5614.

34- Holiday Shopping

MERRY CHRISTMAS! Home shoppers catalog of name brand products 15-2090 below retail. Shop at home. Aloha Distribution. 374-0351.

35- Diamonds for Sale

BEAUTIFUL DIAMOND wedding set. 1/4 ct. Appraised \$550, will sell \$250/nego. 373-4824.

I BUY/SELL WEDDING brides made dresses. 798-9259, or 226-6029. Ask for Rice 'N Roses.

38- Miscellaneous for sale

SPECIAL FOR CHRISTMAS Louis Vuitton licensed goods. Half price. Call 377-7907.

40- Furniture

NEW & USED FURNITURE Also appl. Guaranteed 90 days parts & labor. WE PAY CASH for second-hand merchandise. Provo Furniture & Appliances. 450 W. Center. 374-6886.

42- Musical Instruments

PIANOS, USED, return rentals, trade-ins, like new. Reduced. Wakefields, 373-1263.

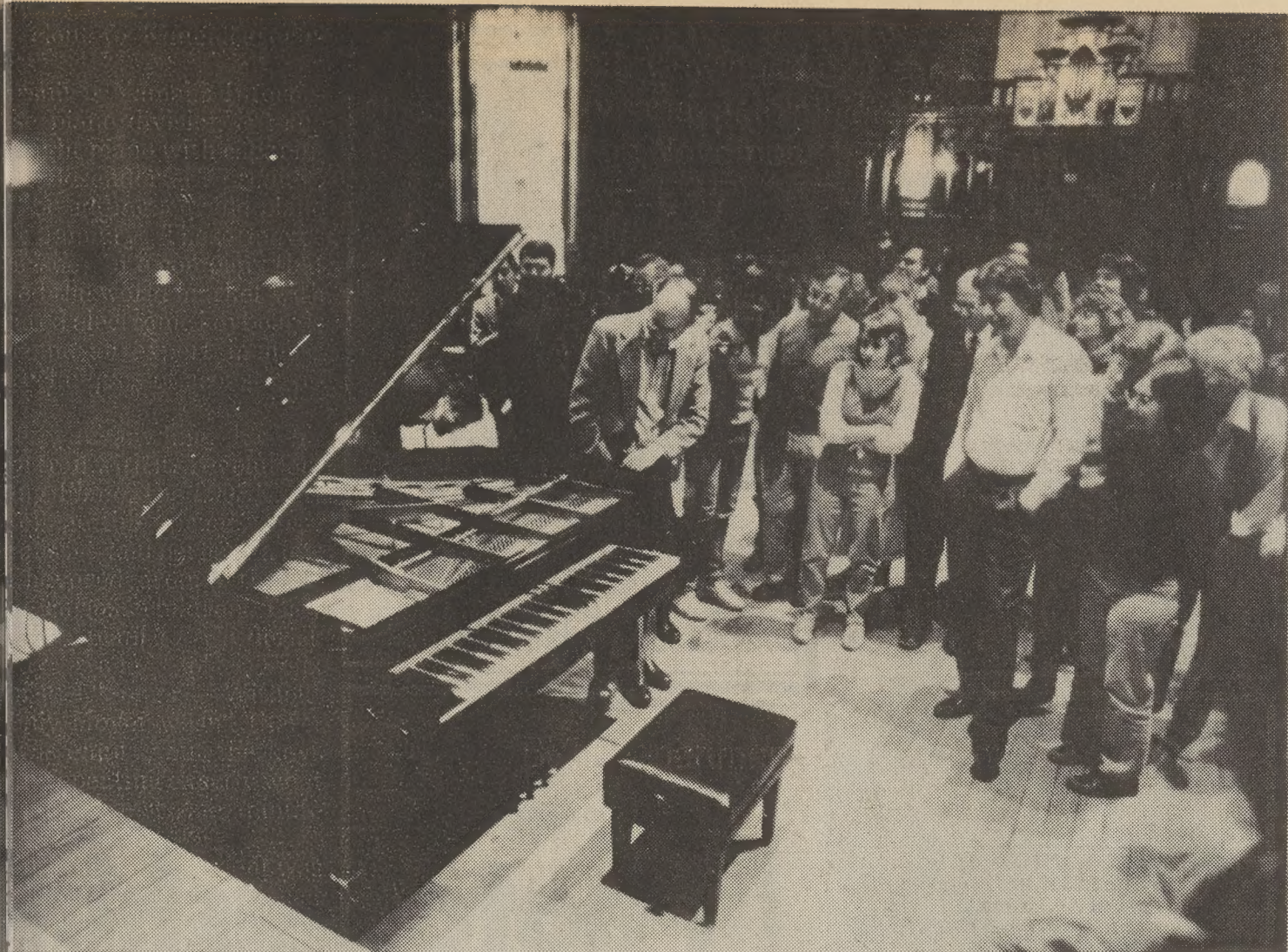
PIANOS, \$25/MONTH SUMMERHAYS MUSIC CENTER. 226-1760.

PIANO RENTALS All brands, free del & tune w/7 mo contract. Bill Harris Music, 224-0466.

NEW KAWAI Synthesizer- Full editing, MIDI, extra Cartige. Call Dave at 225-2102.

43- Electric Appliances

WHIRLPOOL & HOOVER APPLIANCES special low prices. Wakefields, 373-1263.



Christian Science Monitor photo

ance watches the 97-key Bosendorfer
y' a song recorded earlier. The com- | puterized piano can repeat a pianist's performance perfectly.

Bosendorfer electronic piano copies pianist's performance

Science Monitor

— One of the most im-
portant instruments to hit
the market these days isn't another
synthesizer, Korg, or Casio.

Coming from the 150-year-old
Bosendorfer company in Vienna, one
of the most prestigious piano

makers has taken its Imperial
model, the largest grand piano in
the world today — and linked it to a
computer that allows the piano to play
exactly what a pianist performs.

Years of development, the
Bosendorfer is now making inroads
into the professional recording busi-
ness. In other industries, the
technology has gone global in re-
cent years. With instruments from
Japan and the United States
being a slice of the world mar-
ket, the Bosendorfer, owned by Kimball
Clark, is not about to be left
behind. Though Bosendorfer pianos
have enjoyed a powerful reputa-
tion among pianists around the world,
they are making a first-time
incursion into digital electronics.

They will give Bosendorfer
a new role in the fast-moving
marketplace that instrument de-
sign has become. Kimball's
move into electronic organs has
been a key for its Bosendorfer di-
vision on digital electronics —
a competition. The highly re-
putation of Bosendorfer cannot
be lost to Kimball's mar-
ket.

The lawsuit is Yamaha Interna-
tional's piano division is mar-
keting a right piano with capabili-
ties to Bosendorfer's product.
They are adding a grand piano
model in January. These moves
are raising for a company that
has ruled the world market with
its digital electronic keyboards
to become an expert in mass
production techniques of acoustic pi-
anos.

Kimball, meanwhile, has hit
the market with its revolution-
izing Piano, the 290SE. At
the premiere this spring, music
critics — and perhaps a few
curious children. They
were watching pianist Frederick
Fennell play one of Felix
Mozart's "Songs Without
Words." Moyer wasn't there.
The piano was empty, but the keys
were repeating exactly what
Fennell played just one minute

ago. The black instrument was
repeating Bosendorfer's best
performance with nine extra bass
notes to the standard 88. The
extra hammers and dampers

went up and down, and the bass gen-
tly rumbled like a giant set of bells.
This was the real thing, for sure, but
in "instant replay" mode.

Anyone who has ever seen an old-
fashioned player piano spin out a tune
can imagine what it's like to watch the
290SE. But unlike the piano rolls of
the early 1900s and their successors,
this instrument perfectly reproduces
every crescendo, every subtle nu-
ance, and every unique tone of the
pianist's interpretation.

"I'm not keen on gimmicks, but this
is phenomenal," said Jean Alderman,
a member of the piano faculty in
Wellesley's music department, who
watched the instrument's demon-
stration and concert.

The 290SE is definitely a new chap-
ter in the history of Bosendorfer. Ac-
cording to Vic Geiger, vice president
of international sales, "It's important
for a company to look to the future
and not just to rest on past laurels."
This innovation, he said, "brings the
piano into the 21st century."

The Bosendorfer Recording Piano
has already generated enough re-
spect from pianists and sound techni-
cians that conductor/composer Gun-
ther Schuller has agreed to produce

the first compact disc recording of a
solo performance on the instrument,
featuring Moyer's live concert at
Wellesley.

"This is the purest, most perfect
kind of reproduction known to man
thus far," said Schuller, whose own
GM Recordings will release the CD
this fall.

As a pianist performs a piece, opti-
cal sensors "watch" the exact speed,
force of attack and release of each
hammer, taking measurements about
800 times a second. Sensors are fo-
cused on the pedals, too. The mea-
surements are turned into digital in-
formation and sent to a computer
terminal nearby.

Here the data are processed, and in
a few minutes it can be shipped back
to a large box mounted under the pi-
ano, where voltage-driven solenoids,
or linear motors, play each key ex-
actly the way the pianist played it.

For the first time, "a pianist can go
out into the middle of the hall and hear
what his playing sounds like," said
Moyer. Watching the keys up close is
"instructive," because every little im-
perfection shows up. Even an acci-
dental brushing of a note is recorded,
he said.

Department of the Navy

NAVAL REACTORS

Will be interviewing engineering, physics,
chemistry, and math majors with 3.3 GPA
or better on November 16-17, 9-3 p.m.
at the CAREER PLACEMENT CENTER.

APPOINTMENTS CAN BE MADE
AT THE PLACEMENT CENTER.
378-3000

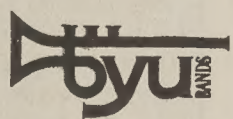
or call toll free
1-800-543-9820
Mon.-Fri. 8-4 p.m.

BYU Department of Music Presents

Wind Symphony

David Blackinton
director

with Walter Rudolph narrating "Belloc's Beasts"

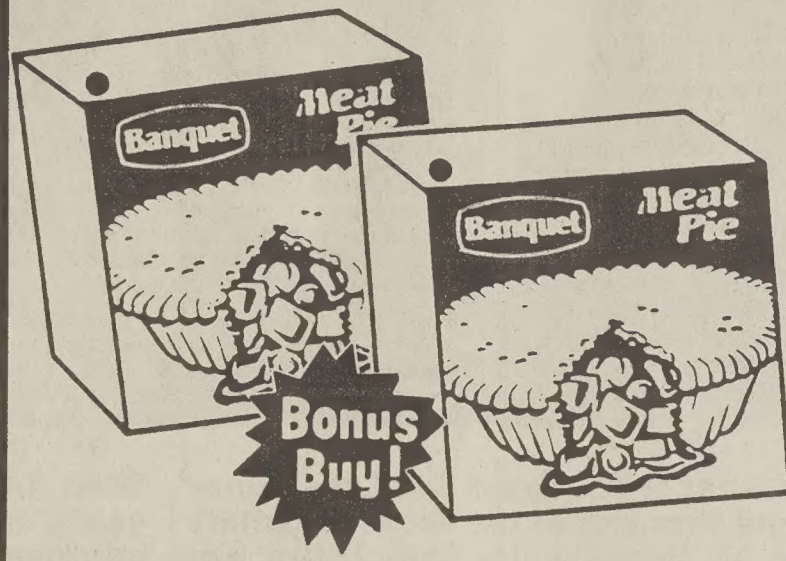


Thursday, November 17, 1988
deJong Concert Hall 7:30 p.m.

Tickets: Students/Faculty/Sr. Citizen \$3.00
General Public \$4.00

Tickets available in Music Ticket Office
378-7444

1/2 Price SALE!



Banquet Meat Pies

• 7 oz. • Beef • Chicken • Turkey
• Reg. 3/81

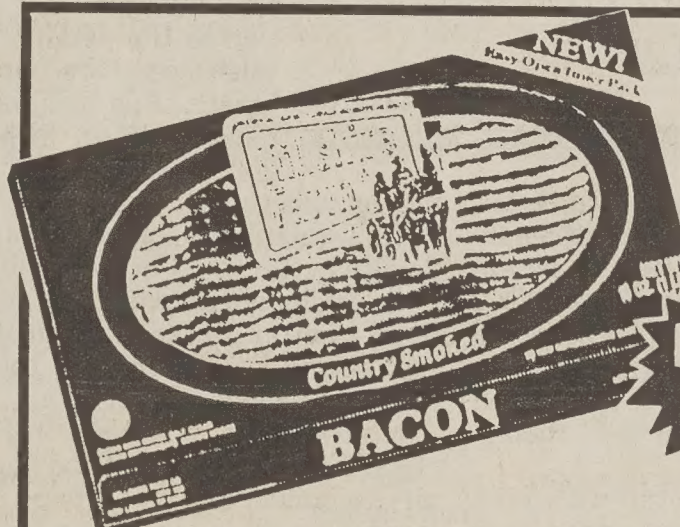
24¢



Frozen Vegetables

• Generic • Peas • Corn • Mixed
• 16 oz. • Reg. 79¢

39¢



Hillshire Farms Bacon

• Country Smoked • 1 lb.
• Reg. 2.39

1.19

Limit 2 Please



Cream Cheese

• Generic • Reg. 89¢ • 8 oz.

44¢

Limit 2 Please



Albertsons Aspirin

• 100 Count • 5 Grain
• Reg. 99¢

2 FOR 99¢

Limit 2 Please



California Oranges

Reg. 1.98

4 lb. bags 99¢

Ad Prices Effective November 13th-15th, 1988

- 560 West Center St., Provo
- 2255 N. University Parkway, Provo
- 25 West Center St., Orem
- 700 East State Rd., American Fork

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we are out of stock, a RAIN
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when you need it most.

From dulcimers to guitars

Craftsman puts quality in his work

By MARTA NEILSON
Universe Staff Writer

C-clamps clutch the sides of rough-hewn workbenches. Fronts and backs of unfinished acoustic guitar bodies hang on the wall, while assorted blocks of wood and sawdust carpet the floor. Power tools and a stereo make up the remainder of the room's furniture.

Though to some this setting might seem disorganized, Ken Stika appears comfortable in his Provo guitar shop, The Great Salt Lake Guitar Company, home of Stika Guitars.

Stika, the only full-time folk instrument builder in the state, has been making a variety of folk instruments — dulcimers, citterns, psalteries — for nine years, though he now focuses on making small-bodied, steel-stringed finger-picking (acoustic) guitars.

Early instrument building

A career building guitars wasn't what Stika originally planned. "It's been a slow, evolving thing. I started out making mountain dulcimers and hammered dulcimers."

Stika came to Utah after being injured on a fishing boat in Alaska. After renting a room at the Hotel Roberts and checking out a book on how to make mountain dulcimers, he began building a dulcimer on a desk in the 10 by 12-foot hotel room.

"I'll bet I spent maybe two or three weeks building it," Stika said. "I built the first three instruments in the Hotel Roberts, driving all of my neighbors nuts."

After trying his hand at dulcimers, Stika decided to make a guitar. "I don't make many guitars. I guess we're looking on number 40."

Though Stika built eight or 10 guitars before he had one that was ready for sale, he said he learned a lot about building from making his first few guitars.

"I was lucky or something. I built reasonably good, quality stuff right off the bat," Stika said. "(The first guitars) were all right for where I was at when I was building them, but by today's standards they're not much of an instrument."

Acoustic guitars

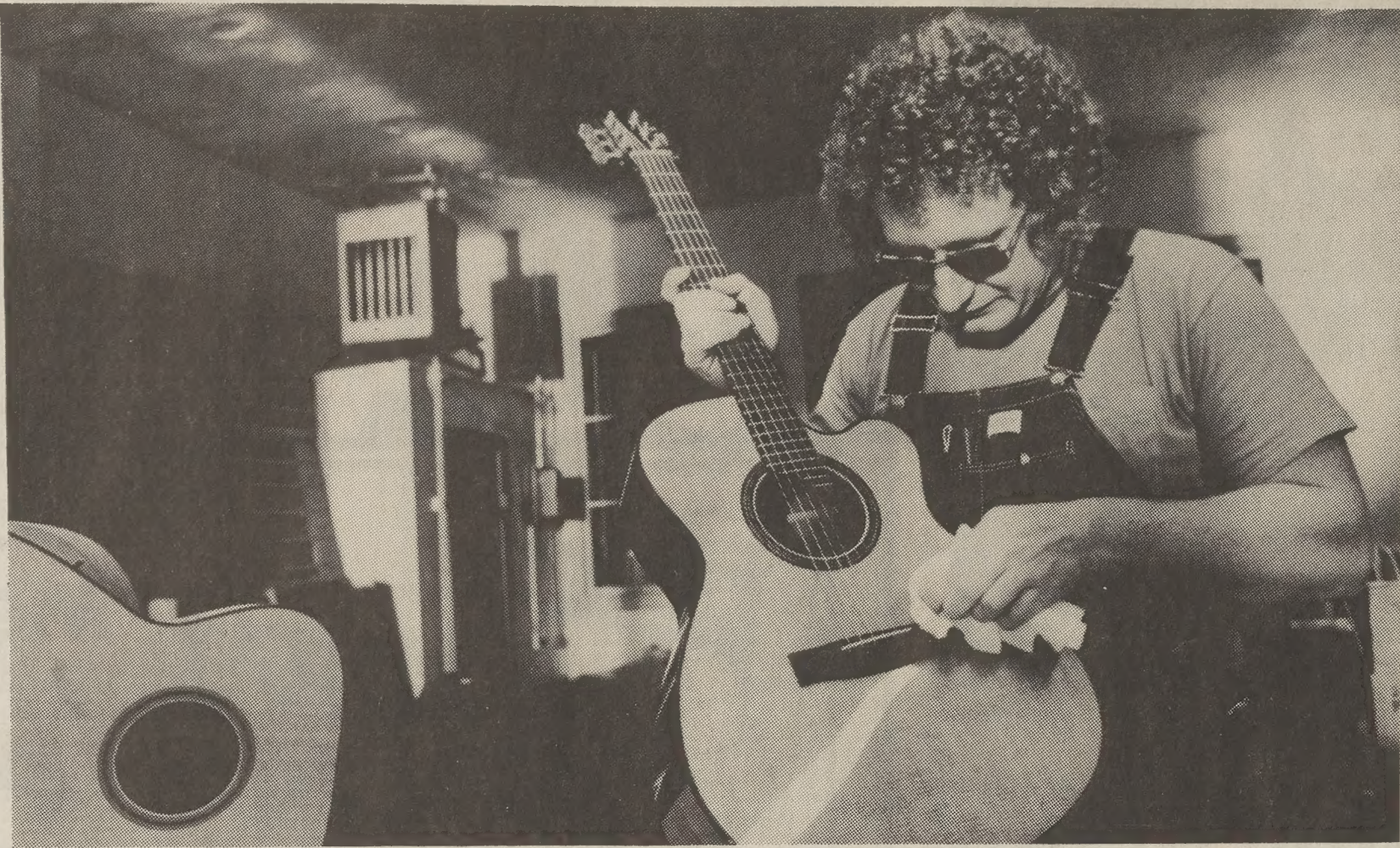
In an era where electric guitars have been popularized by rock and roll, and mass-produced acoustic guitars are readily available, there is less of a demand for custom-made acoustic guitars.

"It's like an emotional roller coaster. First of all, you build a product that nobody has to have . . . and you try to keep your pricing fair and things like that, but your work, hopefully, is accepted," Stika said.

"A lot of what I'm trying to do is swim upstream. The instruments that I make just aren't for everybody. Some people yawn, and others get really excited. I accept that."

An independent builder has to compete with established guitar companies, such as C.F. Martin and Taylor, names that have had an impact on guitar manufacturing, Stika said. In addition, he said most of the buying public aren't really qualified to compare quality or poorly-made guitars.

According to Stika, guitar players often purchase a guitar for the name



Ken Stika, owner of The Great Salt Lake Guitar Company, polishes one of the acoustic guitars he made in his Provo guitar shop. Stika has

been building musical instruments for nine years, and is currently the only full-time folk-instrument builder in the state.

alone. "People who buy my instrument buy it for its own merits. They don't care what the headstock says."

As a private builder, Stika said it is often a difficult challenge to make a name for himself. "I'll never build enough so that a person will be in a club somewhere and say 'Oh, there's a Stika.' It just isn't going to happen. I think it (the name) distracts from the beauty of the instrument."

"My instruments are not an advertisement to the general public . . . it's a personal thing for me and the person I build the guitar for," said Stika.

"A lot of what I'm trying to do is swim upstream. The instruments that I make just aren't for everybody. Some people yawn, and others get really excited. I accept that."

— Ken Stika

Tom Shults, a local musician, who, with his wife, performs music primarily from the British Isles, owns six instruments crafted by Stika. "(My wife and I) were looking for someone who made bowed psalteries initially, and he was the only guy in this region as far as we knew that sold them," said Shults.

"I . . . compared his stuff with most of the major makers in the nation, and his workmanship was as good or better than the finest builders in the states."

Stika said he is a specialist just trying to do his best. "I did not create the guitar and I owe a whole lot to people who have done things before and are willing to share their information with me."

Teaching the craft

Stika shares the information he has gained over the years in the classes he now teaches.

"Out at the Tech I taught a class on building dulcimers. That was the first organized class I taught, and that

goes back at least six years," Stika said.

Currently he teaches classes on acoustic guitar construction in his shop. "The quality of work that comes out of the class is on a par with what I do, and that is really satisfying. To me it says that . . . if you go about it right, the student instruments are not typical rough-hewn instruments. They are highly refined. I'd trade one of mine for one of theirs."

Stika says he has no secrets when it comes to building. "I will openly tell anybody how I do any step or process. The information is free; some of it I have gained because I am a self-taught builder."

One thing Stika has learned from teaching is that "Women pay attention to the details. Guys' tolerances are one-sixteenth of an inch, or one-quarter of an inch, and you end up either redoing, or something."

"A woman will shame a man into doing a better job. I'm not saying that in every instance a woman is going to build a better guitar than a man, I'm just saying that by nature, they are more meticulous," said Stika.

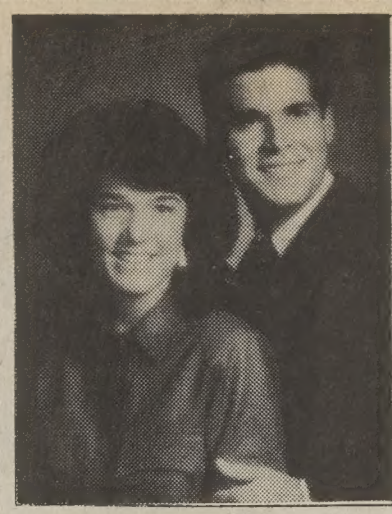
Erik Neilson, a student in Stika's class, was excited about the opportunity to build a guitar. "I found out he taught the class, and even though I already had a nice guitar, I wanted to see if I could actually build one."

According to Neilson, Stika "hasn't kept anything from us. He showed us exactly how he does things, and the materials and woods that we use are as good as on anything made today, so it's simply a top-notch guitar."

Initially, Stika's students want to do too much on their first guitar. "His suggestion is for students to steer away from extras," said Neilson.

"There is a certain amount of skill required . . . we're not going to make a half-rate guitar," said Stika, "but simplicity is the key."

Universe photo by Jeanne Schmeil



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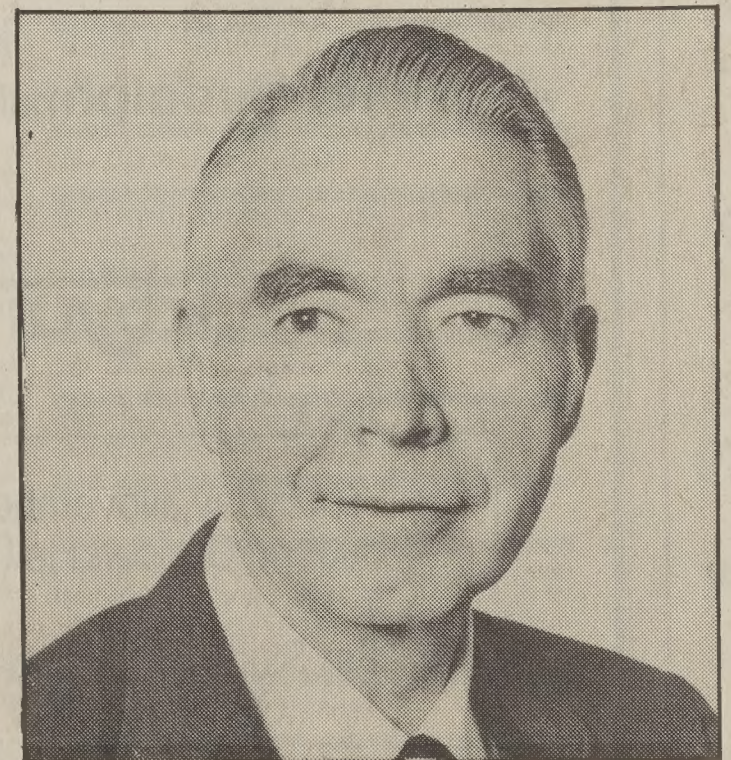
BYU Chapter



Founded 1897

Annual Fall Meeting
Tuesday, November 15, 1988
7:00 p.m.

Memorial Lounge, ELWC
Speaker: Richard L. Anderson
Traps in Interpreting Early Mormon History



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Tuesday 15th

8 a.m. to 4 p.m.

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Wednesday 16th

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Friday 18th

12:00-12:50

"Careers" Brown Bag Lecture
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